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## WHAT IS CLAIMED IS:

 A method of processing a document in a workflow system, the method comprising:

detecting when a document is at a refinable place in a first workflow network, the first workflow network specifying a plurality of operations to be performed on the document including a first operation and a second operation, the refinable place occurring at a location in the first workflow network after the first operation and before the second operation is performed on the document:

determining, when the document is at the refinable place, if a second workflow network specified by the document is permitted to be attached to the refinable place of the first workflow network, the second workflow network specifying one or more operations to be performed on the document; and

if the second workflow network specified by the document is permitted to be attached to the refinable place of the first workflow network, attaching the second workflow network to the refinable place of the first workflow network such that the document is processed according to the second workflow network before the second operation specified by the first workflow network is performed on the document.

- The method of claim 1 wherein the first workflow network is configured by a workflow designer and the second workflow network is configured by an author of the document.
- 3. The method of claim 1 wherein detecting when the document is at the refinable place in the first workflow network comprises:

detecting when the first operation has been performed on the document.

4. The method of claim 1 wherein determining if the second workflow network specified by the document is permitted to be attached to the refinable place of the first workflow network comprises:

determining permissions information specified for the refinable place; and determining that the second workflow network specified by the document is permitted to be attached to the refinable place of the first workflow if the document satisfies the permissions information specified for the refinable place.

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- The method of claim 4 wherein the permissions information specified for the refinable place is configured by a designer of the first workflow network.
- 6. The method of claim 1 wherein determining if the second workflow network specified by the document is permitted to be attached to the refinable place of the first workflow network comprises:

determining permissions information associated with the document; and determining that the second workflow network specified by the document is permitted to be attached to the refinable place of the first workflow if the permissions information associated with the document permits the attachment.

- The method of claim 6 wherein the permissions information associated with the document is configured by an author of the document.
- 8. The method of claim 1 wherein attaching the second workflow network to the refinable place of the first workflow network such that the document is processed according to the second workflow network before the second operation specified by the first workflow network is performed on the document comprises:

performing at least one operation from the one or more operations specified by the second workflow network on the document before performing the second operation specified by the first workflow network on the document.

9. The method of claim 1 wherein attaching the second workflow network to the refinable place of the first workflow network such that the document is processed according to the second workflow network before the second operation specified by the first workflow network is performed on the document comprises:

identifying a set of one or more workflow networks specified by the document;

identifying a workflow network from the set of workflow networks that satisfies a selection criterion; and

processing the second document according to the workflow network identified from the set of workflow networks before performing the second operation specified by the first workflow network on the document.

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10. The method of claim 1 wherein the second workflow network attached to the refinable place of the first workflow network comprises a refinable place.

## 11. The method of claim 1 further comprising:

if the second workflow network specified by the document is not permitted to be attached to the refinable place of the first workflow network:

determining a set of workflow networks attached to the refinable place of the first workflow network:

identifying at least one workflow network from the set of workflow networks for processing the document; and

processing the document according to the at least one workflow network before performing the second operation specified by the first workflow network on the document.

## 12. The method of claim 1 further comprising:

if the second workflow network specified by the document is not permitted to be attached to the refinable place of the first workflow network:

determining a first set of workflow networks attached to the refinable place of the first workflow network;

based upon permissions information associated with the document, detaching one or more workflow networks included in the first set of workflow networks from the refinable place such that a second set of workflow networks remain attached to the refinable place;

identifying at least one workflow network from the second set of workflow networks for processing the document; and

processing the document according to the at least one workflow network before performing the second operation specified by the first workflow network on the document.

13. A method of processing a document according to a first workflow network, the first workflow network specifying a plurality of operations to be performed, the plurality of operations including a first operation and a second operation following the first operation, the method comprising:

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subsequent to performing the first operation and before performing the second operation, determining if the document is permitted to be processed by a second workflow network specified by the document, the second workflow network specifying one or more operations to be performed on the document; and

if the document is permitted to be processed by the second workflow network, processing the document according to the second workflow network before the second operation specified by the first workflow network is performed.

- 14. The method of claim 13 wherein the first workflow network is configured by a workflow designer and the second workflow network is configured by an author of the document.
- 15. The method of claim 13 wherein determining if the document is permitted to be processed by the second workflow network specified by the document comprises:

determining permissions information specified for the first workflow network;

determining that the document is permitted to be processed by the second workflow network if the document satisfies the permissions information specified for the first workflow network

- 16. The method of claim 15 wherein the permissions information specified for the first workflow network is configured by a designer of the first workflow network.
- 17. The method of claim 13 wherein determining if the document is permitted to be processed by the second workflow network specified by the document comprises:

determining permissions information associated with the document; and determining if the document is permitted to be processed by the second workflow network specified by the document based upon the permissions information associated with the document.

18. The method of claim 17 wherein the permissions information associated with the document is configured by an author of the document.

	19	€.	The method of claim 13 wherein processing the document according to			
	the second work	flow n	etwork comprises:			
	id	lentify	ing a set of one or more workflow networks specified by the			
	document;					
	id	lentify	ing a workflow network from the set of workflow networks that			
	satisfies a selecti	s a selection criterion; and				
processing the second document according to the workflow netwo						
					first workflow network.	
	20	0.	The method of claim 13 wherein processing the document according to			
the second workflow network comprises:						
	performing at least one operation from the one or more operations specified					
	the second work	the second workflow network before performing the second operation specified by the first				
	workflow network.					
	2	1.	The method of claim 13 further comprising:			
	_		ocument is not permitted to be processed by the second workflow			
	network:	ine u	ocument is not permitted to be processed by the second workhow			
	network.		identifying a set of workflow networks;			
			identifying at least one workflow network from the set of workflow			
	networks for pro	r processing the document; and				
			processing the document according to the at least one workflow			
	network before p		ming the second operation specified by the first workflow network.			
	2	2.	The method of claim 13 further comprising:			
	ii	the d	ocument is not permitted to be processed by the second workflow			
	network:					
			identifying a first set of workflow networks;			
			based upon permissions information associated with the document,			
	deleting one or 1	nore v	workflow networks from the first set of workflow networks;			
			identifying at least one workflow network from workflow networks			
	remaining in the	first	set of workflow networks for processing the document; and			

processing the document according to the at least one workflow network before performing the second operation specified by the first workflow network.

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23. A computer program product stored on a computer readable storage medium for processing a document in a workflow system, the computer program product comprising:

code for detecting when a document is at a refinable place in a first workflow network, the first workflow network specifying a plurality of operations to be performed on the document including a first operation and a second operation, the refinable place occurring at a location in the first workflow network after the first operation and before the second operation is performed on the document;

code for determining, when the document is at the refinable place, if a second workflow network specified by the document is permitted to be attached to the refinable place of the first workflow network, the second workflow network specifying one or more operations to be performed on the document; and

if the second workflow network specified by the document is permitted to be attached to the refinable place of the first workflow network, code for attaching the second workflow network to the refinable place of the first workflow network such that the document is processed according to the second workflow network before the second operation specified by the first workflow network is performed on the document.

- 24. The computer program product of claim 23 wherein the first workflow network is configured by a workflow designer and the second workflow network is configured by an author of the document.
- 25. The computer program product of claim 23 wherein the code for detecting when the document is at the refinable place in the first workflow network comprises:
- code for detecting when the first operation has been performed on the document.
- 26. The computer program product of claim 23 wherein the code for determining if the second workflow network specified by the document is permitted to be attached to the refinable place of the first workflow network comprises:

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4 code for determining permissions information specified for the refinable place;
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code for determining that the second workflow network specified by the document is permitted to be attached to the refinable place of the first workflow if the document satisfies the permissions information specified for the refinable place.

- 27. The computer program product of claim 26 wherein the permissions information specified for the refinable place is configured by a designer of the first workflow network.
- 28. The computer program product of claim 23 wherein the code for determining if the second workflow network specified by the document is permitted to be attached to the refinable place of the first workflow network comprises:

code for determining permissions information associated with the document;

code for determining that the second workflow network specified by the document is permitted to be attached to the refinable place of the first workflow if the permissions information associated with the document permits the attachment.

- The computer program product of claim 28 wherein the permissions information associated with the document is configured by an author of the document.
- 30. The computer program product of claim 23 wherein the code for attaching the second workflow network to the refinable place of the first workflow network such that the document is processed according to the second workflow network before the second operation specified by the first workflow network is performed on the document comprises:

code for performing at least one operation from the one or more operations specified by the second workflow network on the document before performing the second operation specified by the first workflow network on the document.

31. The computer program product of claim 23 wherein the code for attaching the second workflow network to the refinable place of the first workflow network such that the document is processed according to the second workflow network before the second operation specified by the first workflow network is performed on the document comprises:

6	code for identifying a set of one or more workhow networks specified by the
7	document;
8	code for identifying a workflow network from the set of workflow networks
9	that satisfies a selection criterion; and
0	code for processing the second document according to the workflow network
1	identified from the set of workflow networks before performing the second operation
2	specified by the first workflow network on the document.
1	32. The computer program product of claim 23 wherein the second
2	workflow network attached to the refinable place of the first workflow network comprises a
3	refinable place.
1 201 4 406 71 80910	33. The computer program product of claim 23 further comprising: if the second workflow network specified by the document is not permitted to
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31	be attached to the refinable place of the first workflow network:
4	code for determining a set of workflow networks attached to the
<b>€</b>	refinable place of the first workflow network;
6	code for identifying at least one workflow network from the set of
7	workflow networks for processing the document; and
8	code for processing the document according to the at least one
9	workflow network before performing the second operation specified by the first workflow
10	network on the document.
1	34. The computer program product of claim 23 further comprising:
2	if the second workflow network specified by the document is not permitted to
3	be attached to the refinable place of the first workflow network:
4	code for determining a first set of workflow networks attached to the
5	refinable place of the first workflow network;
6	based upon permissions information associated with the document,
7	code for detaching one or more workflow networks included in the first set of workflow
8	networks from the refinable place such that a second set of workflow networks remain
9	attached to the refinable place;
10	code for identifying at least one workflow network from the second se

of workflow networks for processing the document; and

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code for processing the document according to the at least one workflow network before performing the second operation specified by the first workflow network on the document.

35. A computer program product stored on a computer readable storage medium for processing a document according to a first workflow network, the first workflow network specifying a plurality of operations to be performed, the plurality of operations including a first operation and a second operation following the first operation, the computer program product comprising:

code for determining, subsequent to performing the first operation and before performing the second operation, if the document is permitted to be processed by a second workflow network specified by the document, the second workflow network specifying one or more operations to be performed on the document; and

if the document is permitted to be processed by the second workflow network, code for processing the document according to the second workflow network before the second operation specified by the first workflow network is performed on the document.

- 36. The computer program product of claim 35 wherein the first workflow network is configured by a workflow designer and the second workflow network is configured by an author of the document.
- 37. The computer program product of claim 35 wherein the code for determining if the document is permitted to be processed by the second workflow network specified by the document comprises:

code for determining permissions information specified for the first workflow network; and

code for determining that the document is permitted to be processed by the second workflow network if the document satisfies the permissions information specified for the first workflow network.

38. The computer program product of claim 37 wherein the permissions information specified for the first workflow network is configured by a designer of the first workflow network.

7	code for processing the document according to the at least one				
8	workflow network before performing the second operation specified by the first workflow				
9	network.				
1	44. The computer program product of claim 35 further comprising:				
2	if the document is not permitted to be processed by the second workflow				
3	network:				
4	code for identifying a first set of workflow networks;				
5	based upon permissions information associated with the document,				
6	code for deleting one or more workflow networks from the first set of workflow networks;				
7	code for identifying at least one workflow network from workflow				
8	networks remaining in the first set of workflow networks for processing the document; and				
9=	code for processing the document according to the at least one				
1 <u>0</u>	workflow network before performing the second operation specified by the first workflow				
FIGURE FOR THE SECOND S	network.				
4	45. A workflow processing system comprising:				
.2	one or more systems configured to perform a plurality operations on a				
3	document specified by a first workflow network, the plurality of operations including a first				
4	operation and a second operation, the first workflow network comprising a refinable place				
3	occurring at a location in the first workflow network after the first operation and before the				
6	second operation is performed on the document; and				
7	a workflow controller coupled to the one or more systems;				
8	wherein the workflow controller is configured to:				
9	detect when the document is at the refinable place in the first workflow				
10	network;				
11	determine, when the document is at the refinable place, if a second				
12	workflow network specified by the document is permitted to be attached to the refinable				
13	place of the first workflow network, the second workflow network specifying one or more				
14	operations to be performed on the document; and				
15	if the second workflow network specified by the document is permitted				
16	to be attached to the refinable place of the first workflow network, attach the second				
17	workflow network to the refinable place of the first workflow network such that the				

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46. The workflow processing system of claim 45 wherein the first workflow network is configured by a workflow designer and the second workflow network is configured by an author of the document.

47. The workflow processing system of claim 45 wherein the workflow controller is configured to detect when the document is at the refinable place in the first workflow network by detecting when the first operation has been performed on the document.

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48. The workflow processing system of claim 45 wherein the workflow controller is configured to determine if the second workflow network specified by the document is permitted to be attached to the refinable place of the first workflow network by:

determining permissions information specified for the refinable place; and determining that the second workflow network specified by the document is permitted to be attached to the refinable place of the first workflow if the document satisfies the permissions information specified for the refinable place.

49. The workflow processing system of claim 48 wherein the permissions information specified for the refinable place is configured by a designer of the first workflow network.

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50. The workflow processing system of claim 45 wherein the workflow controller is configured to determine if the second workflow network specified by the document is permitted to be attached to the refinable place of the first workflow network by:

determining permissions information associated with the document; and determining that the second workflow network specified by the document is permitted to be attached to the refinable place of the first workflow if the permissions information associated with the document permits the attachment.

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51. The workflow processing system of claim 50 wherein the permissions information associated with the document is configured by an author of the document.

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52. The workflow processing system of claim 45 wherein the workflow controller is configured to attach the second workflow network to the refinable place of the first workflow network such that the document is processed according to the second workflow network before the second operation specified by the first workflow network is performed on the document by:

causing at least one operation from the one or more operations specified by the second workflow network to be performed on the document before the second operation specified by the first workflow network is performed on the document.

53. The workflow processing system of claim 45 wherein the workflow controller is configured to attach the second workflow network to the refinable place of the first workflow network such that the document is processed according to the second workflow network before the second operation specified by the first workflow network is performed on the document by:

identifying a set of one or more workflow networks specified by the document;

identifying a workflow network from the set of workflow networks that satisfies a selection criterion; and

causing the second document to be processed according to the workflow network identified from the set of workflow networks before the second operation specified by the first workflow network is performed on the document.

- 54. The workflow processing system of claim 45 wherein the second workflow network attached to the refinable place of the first workflow network comprises a refinable place.
- 55. The workflow processing system of claim 45 wherein the workflow controller is further configured to:

if the second workflow network specified by the document is not permitted to be attached to the refinable place of the first workflow network:

determine a set of workflow networks attached to the refinable place of the first workflow network:

identify at least one workflow network from the set of workflow networks for processing the document; and

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cause the document to be processed according to the at least one workflow network before the second operation specified by the first workflow network is performed on the document.

56. The workflow processing system of claim 45 wherein the workflow controller is further configured to:

if the second workflow network specified by the document is not permitted to be attached to the refinable place of the first workflow network:

determine a first set of workflow networks attached to the refinable place of the first workflow network;

based upon permissions information associated with the document, detach one or more workflow networks included in the first set of workflow networks from the refinable place such that a second set of workflow networks remain attached to the refinable place;

identify at least one workflow network from the second set of workflow networks for processing the document; and

cause the document to be processed according to the at least one workflow network before the second operation specified by the first workflow network is performed on the document.

## A workflow processing system comprising:

one or more systems configured to process a document according to a first workflow network, the first workflow network specifying a plurality of operations to be performed, the plurality of operations including a first operation and a second operation following the first operation; and

> a controller system coupled to the one or more systems; wherein the controller system is configured to:

subsequent to performing the first operation and before performing the second operation, determine if the document is permitted to be processed by a second workflow network specified by the document, the second workflow network specifying one or more operations to be performed on the document; and

if the document is permitted to be processed by the second workflow network, cause the document to be processed according to the second workflow network before the second operation specified by the first workflow network is performed.

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- 58. The workflow processing system of claim 57 wherein the first workflow network is configured by a workflow designer and the second workflow network is configured by an author of the document.
- 59 The workflow processing system of claim 57 wherein the controller system is configured to determine if the document is permitted to be processed by the second workflow network specified by the document by:

determining permissions information specified for the first workflow network: and

determining that the document is permitted to be processed by the second workflow network if the document satisfies the permissions information specified for the first workflow network.

- 60. The workflow processing system of claim 59 wherein the permissions information specified for the first workflow network is configured by a designer of the first workflow network.
- 61 The workflow processing system of claim 57 wherein the controller system is configured to determine if the document is permitted to be processed by the second workflow network specified by the document by:

determining permissions information associated with the document; and determining if the document is permitted to be processed by the second workflow network specified by the document based upon the permissions information associated with the document.

- 62. The workflow processing system of claim 61 wherein the permissions information associated with the document is configured by an author of the document.
- 63. The workflow processing system of claim 57 wherein the controller system is configured to cause the document to be processed according to the second workflow network by:

identifying a set of one or more workflow networks specified by the document:

identifying a workflow network from the set of workflow networks that satisfies a selection criterion; and